# This Page Is Inserted by IFW Operations and is not a part of the Official Record

# **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

# IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/202,035	12/17/1998	JEFFREY JOHN GORMAN	415852000100	2384
25226	7590 01/14/2003			
MORRISON	& FOERSTER LLP		EXAMI	NER
755 PAGE MI			LI, BA	.00
PALO ALTO,	, CA 94304-1018		21, 27	٧
			ART UNIT	PAPER NUMBER
			1648	35
			DATE MAILED: 01/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

• •		Application No.	Applicant(s)
		09/202,035	GORMAN, JEFFREY JOHN
	Office Action Summary	Examiner	Art Unit .
		Bao Qun Li	1648
Period fo	Th MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on 01 N	lovember 2002 .	
2a) <u></u>	. <u> </u>	s action is non-final.	
3)	Since this application is in condition for allowa closed in accordance with the practice under the	nce except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 153 O.G. 213.
· _	on of Claims		
	Claim(s) <u>6,9,11-13,16-18,21,23,25,27-35,37,39</u>		, ,
	4a) Of the above claim(s) <u>16-18,21,23,25 and 2</u> Claim(s) is/are allowed.	17-33 is/are withdrawn from cons	ideration.
	Claim(s) is/are allowed. 41 Claim(s) 6, 9, 11-13, 34, 35, 37, 39 and 43-50 i	is/are rejected	
	Claim(s) is/are objected to.	s/are rejected.	
·	Claim(s) are subject to restriction and/or	election requirement	
	ion Papers	olocion requirement.	
9)[	The specification is objected to by the Examiner		
10)	The drawing(s) filed on is/are: a)□ accep	ted or b)⊡ objected to by the Exa	miner.
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).
11)	The proposed drawing correction filed on	is: a)☐ approved b)☐ disappro	oved by the Examiner.
	If approved, corrected drawings are required in rep	·	
	The oath or declaration is objected to by the Exa	aminer.	
	under 35 U.S.C. §§ 119 and 120		
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	)-(d) or (f).
a)[	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documents		
	2. Certified copies of the priority documents	· · ·	
* S	3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the ac	eau (PCT Rule 17.2(a)).	•
14) 🗌 A	acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).
_	)  The translation of the foreign language protection. The translation of the foreign language protection.		
Attachmen			
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s). <u>34</u> . Patent Application (PTO-152) etter .

	Application No.	Applicant(s)	
Nation to Committee			
Notice to Comply	Examin r	Art Unit	
NOTICE TO COMPLY WITH REQU			
CONTAINING NUCLEOTIDE SEQ	UENCE AND/OR AMINO A	CID SEQUEN	CE
DISCLOSURES			
Applicant must file the items indicated below is attached to avoid abandonment under 3 provisions of 37 CFR 1.136(a)).	ow within the time period set the C 5 U.S.C. § 133 (extensions of tim	Office action to wh e may be obtaine	rich the Notice d under the
The nucleotide and/or amino acid sequence the requirements for such a disclosure as			
1. This application clearly fails to compattention is directed to the final rulemation OG 29 (May 15, 1990). If the effective notice published at 63 FR 29620 (June	king notice published at 55 FR 18 filing date is on or after July 1, 19	3230 (May 1, 1990 998, see the final	0), and 1114
<ul><li>2. This application does not contain, as Listing" as required by 37 C.F.R. 1.821</li></ul>		on paper copy, a	a "Sequence
3. A copy of the "Sequence Listing" in a 37 C.F.R. 1.821(e).	computer readable form has not b	peen submitted as	required by
4. A copy of the "Sequence Listing" in content of the computer readable form 1.823, as indicated on the attached co	does not comply with the require	ments of 37 C.F.F	vever, the R. 1.822 and/or
5. The computer readable form that he and/or unreadable as indicated on the readable form must be submitted as re	attached CRF Diskette Problem I	has been found to Report. A Substite	be damaged ute computer
6. The paper copy of the "Sequence Li "Sequence Listing" as required by 37 C		puter readable fro	om of the
☑ 7. Other: Please insert SEQ ID NO after	er each disclosed sequences liste	d on Fig. 2, 11 an	nd 12.
Applicant Must Provide:  ☐ An initial or substitute computer readate	ole form (CRF) copy of the "Sequ	ence Listing".	
An initial or substitute paper copy of the into the specification.	e "Sequence Listing", as well as a	an amendment dir	ecting its entry
☑ A statement that the content of the applicable, include no new matter, as req 1.825(d).			
For questions regarding compliance	e to these requirements, ple	ase contact:	
For Rules Interpretation, call (703)			
For CRF Submission Help, call (703			;
Patentin Software Program Support Technical Assistance		20	
To Purchase Patentin Software			
PLEASE RETURN A COPY OF TH	IS NOTICE WITH YOUR R	EPLY	

Art Unit: 1648

#### **DETAILED ACTION**

#### **RCE**

A request paper No. 28 filed on Aug. 06, 2002 for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the final rejection is withdrawn. The request for continued examination (RCE) is acceptable and a RCE has been established. An action on the RCE follows.

#### Sequence requirements

This application contains sequence disclosures <u>in Figs. 2, 11 and 12</u> that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

Full compliance with the sequence rules is required in response to this Office Action. A complete response to this office action by <u>inserting corresponding SEQ ID NOs at each end</u> <u>of disclosed sequences listed on Figs. 2, 11 and 12</u> should include both compliance with the sequence rules and a response to the Office Action set forth below. Failure to fully comply with <u>both</u> these requirements in the time period set forth in this office action will be held non-responsive.

#### Response to Amendment

This is a response to the amendments, paper Nos. 29 and 33, filed 06/23/01. In amendment of paper No. 29, claims 1-5, 7-8, 10, 2, 24, 26, 36, 38, 40 and 42 were canceled, claims 6, 9, 11, 34, 35, 39 and 41 have been amended and new claims 43-50 have been entered. In amendment paper No. 33, claims 43 and 44 have been amended. Claims 6, 9, 11-13, 16-18, 21, 23, 25, 27-35, 37, 39, 41 and 43-50 are pending.

Application/Control Number: 09/202,035 Page 3

Art Unit: 1648

Please note any ground of rejection(s) that has not been repeated is removed. Text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

#### Election/Restriction

- 1. Applicant's election with traverse of Group I, claims 6, 9, 11-13, 34, 39, 41 and 45-50 in Paper No. 33 is acknowledged. The traversal is on the ground(s) that claim 35 and 37 are not a method claims, but are the dependent claim on claim 6, they should be rejoined with elected group I. Applicant's argument has been fully considered, the claims 35 and 37 are rejoined with group I.
- 2. Applicant further argue that group V, claims 43 and 44 are also dependent on claim 6 and encompassed within the scope of claim 6. Applicant's argument has been fully considered; claim 43-44 are rejoined with elected group I.
- 3. Claims 6, 9, 11-13, 34, 35, 37, 39, 41 and 43-50 are considered before the examiner.
- 4. Applicant is reminded to cancel the claims 16-18, 21, 23, 25, 27-33 drawn to the non-elected groups.

5.

#### Claim Rejections - 35 USC § 112

- 6. Claims 6, 9, 11-13, 34, 35, 37, 39, 41 and 43-50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Claims 6, 35, 39, 41, 43, 45, 47 and 49-50 are still rejected for its unclearness and indefinite. In response to the Office Action, Applicant amended the claims as "comprising" instead of "consisting essentially of" and asserted that the rejection is moot in view of the amendment.
- 8. Applicant's amendment has been respectfully considered, however, it is not found persuasive because the word of "comprising" is still an open language, which fails to define what the precise structure of claimed compound. If Applicants wish to claim a particular peptide in the claims, please use more precise language, such as "consisting of" to define what the

Application/Control Number: 09/202,035 Page 4

Art Unit: 1648

claimed molecule is intended in the claims. This affects the dependent claims 9, 11-13, 34, 37, 39, 41, 44 and 48.

### **New Grounds of Rejections:**

#### Claim Rejections - 35 USC § 112

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claims 45-49 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: how to contact cell infected with RSV with intended compound, is it in vitro or in vivo? What kind o dosage is used for the treatment? And how long the treatment is proceeded etc.?

#### Claim Rejections - 35 USC § 101

11. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

12. The invention of claims 6, 9, 11-13, 34, 35, 37, 39 and 41-44 are directed to non-statutory subject matter. There is no recitation of isolation or synthesis in front of the claimed compound. Therefore, the claimed compound read on naturally occurring materials, which are considered to be non-statutory and non-patenable subject matter within the scope of 35 U.S.C. 101. See Official Gazett, 1077 O.G. April 21, 1987. It is recommended that the claim incorporate the claim language, "isolated or synthesized" to overcome this rejection.

#### Claim Rejections - 35 USC § 112

13. The following is a quotation of the first paragraph of 35 U.S.C. 112:

Art Unit: 1648

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 14. Claims 9 and 41 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- 15. In the instant disclosure, the applicants have only disclosed synthetic peptides 1-4 as shown in Fig. 12, in which the C-terminal of the amino acids are formed as S-acetaminomethyl derivatives to prevent formation of disulfide bonds. No other compound of peptide wherein one or more amino acids are replaced by its correspond D-amino acids, which possess a inhibitory effect against the CPE induced by RSV. There is not enough information about it in literature either to guide the one of ordinary skill in the art to predict which amino acid should be encompasses the replacement with its corresponding D-amino acid. Therefore, a written description of the other claimed sequences encoding any more than one amino acid are replaced with the corresponding D-amino acids that are able to exhibit the inhibitory effect of RSV infection.
- 16. See also *University of California v. Eli Lilly and Co.*, 43 USPQ2d 1398 (Fed. Cir. 1997), which teaches that the disclosure of a process for obtaining cDNA from a particular organism and the description of the encoded protein fail to provide an adequate written description of the actual cDNA from that organism which would encode the protein from that organism, despite the disclosure of a cDNA encoding that protein from another organism. 35 USC 112 requires inter alia that "a patent specification contain a written description of the invention and the manner and process of making and using it in such full clear and concise terms as to enable one skilled in the art to make and use the invention". Case law has made it clear that the requirements for a "written description" and an "enabling disclosure" are separate. For example, where a specification contains sufficient information to enable a skilled chemist to produce a particular compound because it gives detailed information on how to produce analogous compounds but it

Art Unit: 1648

makes no reference to the compound in question, the "written description" requirement has not been met even though the description may be enabling.

### Claim Rejections - 35 USC § 112

- 17. Claims 6, 9, 11-13, 34, 35, 37, 39, 41 and 43-50 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for having synthetic peptides listed as 1-4 on Figs 12 of G protein of RSV A2 strain and use the peptides bind HEp-2 cell infected with RSV strain A2 and inhibit the cytopathetic effect caused by A2 strain of human RSV infection in vitro, does not reasonably provide enablement for having a method for using the peptide as a therapeutic composition to treat human RSV infection, The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims.
- 18. In the instant case, the specification only discloses that segments of the cystein noose-containing nonglycosylated central subdomain encoded by SEQ ID NO: 1 and 39, wherein the amino acid at the C-terminal domain is derived with acetamidomethyl amino acid. The applicants found the cystein noose-containing fragment without regular disulfide bonds is able to exhibit the binding activity and stronger inhibitory effect against the RSV induced cytopathetic effect in the susceptible cells in vitro. However, the scope of the claimed invention read on use any or all derivatives of the fragment of 149-197 for treating RSV infection in any situation.
- 19. The test of scope of the enablement is whether one skilled in the art could make and use the claimed invention from the disclosures in the application coupled with information known in the art would undue experimentation (See United States v. Theketronic Inc., 8USPQ2d 1217 (fed Cir. 1988). Whether undue experimentation is required is not based upon a single factor but rather a conclusion reached by weighting many factors. Theses factors were outlined in Ex parte Forman, 230 USPQ 546 (Bd. Pat. App. & Inter. 1986) and gain in re Wands, 8USPQ2d 1400 (Fed. Cir. 1988). These factors include the following:

#### 1). Unpredictability of the art.

The mutation of RSV infection is very frequent and unpredictable. This unpredictability is manifested by (1) the nature of the antigenecity of RSV is unpredictable. (2) RSV G protein has a high degree of strain-to-strain diversity and serotype specificity; it means one peptide from

Art Unit: 1648

one strain of RSV has very limited application. (3) RSV elicits an imperfect immune response in human is imperfect, that permit repeated infection in the life hood. (4) An enhanced disease in children is suspected to be caused by the vaccinated by RSV vaccine and the result of subunit vaccine made by F plus G protein of RSV is variable and in doubt for its safety etc. Applicants are directed to review the RSV vaccine development addressed by Hall (Science, Vol. 265, 1994, pp. 1393-1394).

## 2) State of the art.

The treatment of RSV in still undeserved and RSV vaccine at the time of application's invention was uncertain with no demonstrated unambiguous successes in treating or preventing the human RSV infection.

# 3) Number of working examples.

Applicants presents no working examples to show that any or all polypeptide or the derivatives of the polypeptide comprising the amino acid residues 149-197, in which no disulfide bridges are formed, exhibit the same binding activity to the RSV infected cells or exhibit the inhibitory effect against CPE caused by RSV infection in vitro and in vivo as that of peptide encoded by SEQ ID NO: 1 or 39. The specification does not teach whether all claimed peptide, especially, the polypeptides are able to be used for diagnosis of any or all RSV infection.

#### 4) Amount of guidance presented in the specification.

Applicants present no guidance on how the skilled artisan would practice successfully the claimed polypeptide for treating RSV infection.

### 5) Scope of the claims.

The claims broad read on a pharmaceutical composition and a method for using the said pharmaceutical composition comprising any or all polypeptide or the derivatives of the polypeptide comprising the amino acid residues 149-197, in which no disulfide bridges are formed, which are all able to treat human RSV infection.

#### 6) Nature of the invention.

The invention involves one of the most complex fields of using peptide in vitro and in vivo.

#### 7) Lever of the skill in the art.

The level of the skill in the peptide vaccine and treatment of RSV is high.

Art Unit: 1648

Nevertheless, with regard to an unpredictable field, this does not constitute an adequate disclosure. See Fiers v. Revel (25USPQ2d 1601 at 1606; and also decision by the Federal Circuit with regard to the enablement issues see Genentech Inc. v. Novo Nordisk A/S, 42 USPQ2d 1001-1007). For example, the CAFC stated that "It is the specification, not the knowledge of one skilled in the art that must supply the novel aspects of an invention in order to constitute enablement." (See page 1005 of the decision). This means that the disclosure must adequately guide the art worker to determine, without undue experimentation. The result from in vitro experimentation cannot be extrapolated as a result in vivo. The applicant cannot rely on the knowledge of those skilled in the art to enable the claims without providing adequate teaching. Hence, considering large quantity of experimentation needed, the unpredictability of the field, the state of the art, and breadth of the claims, it is concluded that undue experimentation would be required to enable the intended claim.

### Claim Rejections - 35 USC § 102

20. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 21. Claims 6, 34, 35, 45-46, 49 are rejected under 35 U.S.C. 102(b) as being anticipated by Binz et al. (FR 2 718 452).
- Binz et al. disclose a RSV G protein polypeptide comprising entire amino acid sequence between the amino acid residues 130-230 of RSV G protein of subgroup A, or subgroup B, or bovine respiratory synsytial virus, wherein the polypeptide encoded by sequences disclosed in the specification sequences SEQ ID NO: 3, 4, 8, 14, 16, 18, 30, 36, 44, 50, 52, 61 to 66, 68 and 73. The polypeptide is also characterized with two cystein residues missing at positions 173 and 186 mutations, such as SEQ ID NO: 3, 4, 14, 30, 44, 52, 61 and 68 (See claims 1-4 and Sequence disclosure of SEQ ID NO: 3, 4, 14, 30, 44, 52, 61 and 68). The claimed peptides are all immunogenic that are able to induce immune response and block the RSV infection (see entire document). Therefore, the claimed invention is anticipated by the cited reference.

Application/Control Number: 09/202,035 Page 9

Art Unit: 1648

#### Claim Rejections - 35 USC § 103

23. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 24. Claims 6, 11-13, 34, 35, 37, 39.and 43-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Binz et al. (FR 2 718 452) and Langedijk et al. (J. General Virol. 1996, Vol. 77, pp. 1249-1257).
- 25. Claimed invention is drawn to a synthetic peptide of amino acid residues 19-197 of RSV G protein, wherein more than one cystein residues at positions of 173 and 176 or 182 and 186 may be blocked by forming an acetamidomethyl derivatives. The said polypeptide is able to inhibit the cytopathetic effect (CPE) of RSV infection in susceptible cells, and it can be used for treatment of RSV infection and diagnosis.
- 26. Binz et al. disclose a RSV G protein polypeptide comprising entire amino acid sequence between the amino acid residues 130-230 of RSV G protein of subgroup A, or subgroup B, or bovine respiratory synsytial virus, wherein the polypeptide encoded by sequences disclosed in the specification sequences SEQ ID NO: 3, 4, 8, 14, 16,, 18, 30, 36, 44, 50, 52, 61 to 66, 68 and 73. The polypeptide is also characterized with two cystein residues missing at positions 173 and 186 mutations, such as SEQ ID NO: 3, 4, 14, 30, 44, 52, 61 and 68 (See claims 1-4 and Sequence disclosure of SEQ ID NO. 3, 4, 14, 30, 44, 52, 61 and 68). The claimed peptides are all immunogenic that are able to induce immune response and block the RSV infection (see entire document). Binz et al. do not teach the peptide can be synthesized as acetamidomenthyl peptide or replace some of the amino acid as its D-amino acid counterpart or labeled the peptide with detectable markers.
- 27. Langedijlk et al. teach a method for synthesize the RSV G peptide from amino acid residues 149-197 with acetamidomenthyl derivative at the C-terminal. They also disclosed that the immunogenecity of the derived peptide possesses the same immunogenecity as the originals.

28. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was filled to be motivated by the recited references of Binz et al. in further view of the teaching by Langedjilk et al. because Binz et al. disclose the same polypeptide as it is claimed in the current application, which is the polypeptide of RSV G protein comprises the same contiguous sequence from amino acid 149-197 and the mutations in the conserved cystein residues 173 and 188. Furthermore, the amino acid at the C-terminus is modified by using ametamidomethyl amino acid as disclosed by Langedijlk et al. Binz also teach to use the claimed polypeptide for treating RSV infection as it is claimed in the instant application. Hence the claimed invention as a whole is prima facie obvious absence unexpected results.

#### Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Qun Li whose telephone number is 703-305-1695. The examiner can normally be reached on 8:00 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 703-308-4027. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Bao Qun Li

January 8, 2003

JAMES HOUSEL 1/13/03
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

# Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

# INFORMATION ON HOW TO EFFECT DRAWING CHANGES

## 1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

# 2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes

# **Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.

# BEST AVAILABLE COPY

Torm PTO 948 (Rev. 03.02) U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office Application No. 09 202,035

# NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

DRAWINGS CCER LSHa): Acceptable categories of drawings and submission of miss, corrected drawings when it is examined acceptable until petron is granted. Figs.)  Black ink. Clot.  Glod ordawings are not acceptable until petron is granted. Figs.)  Priced and not black ink and permitted, Figs.)  Priced and not black ink and permitted, Figs.)  Proof gooding (hadd-more stiles required. Figs.)  Proof gooding (hadd-more). Figs.)  Proof pooling (hadd-more). Figs.)  Proof pooling (hadd-more). Figs.)  Proof pooling (hadd-more). Figs.)  Proof pool (hadd-more). Figs.)  Proof poo	DRAWINGS CORE LS Rule Acceptable categories of drawings must be sumitted according to the instructions on the back of this submission of m.s., corrected drawings must be sumitted according to the instructions on the back of this submission of m.s., corrected drawings are not acceptable until petron is granted.  Color drawings are not acceptable until petron is granted.  Eggs Pencil and non-Black into no permitted, Eggs Pencil and non-Black into appear on a barizontal, felt-to-right fashion when page is cither upright or travel so that the top becomes the rights side, except for graphs. Eigls Pencil and non-Black into appear on a barizontal, felt-to-right fashion when page is cither upright or travel so that the top becomes the rights side, except for graphs. Eigls Pencil and non-Black into appear on a barizontal, felt-to-right fashion when page is cither upright or travel so that the top becomes the rights side, except for graphs. Eigls Pencil and non-Black into appear on a barizontal, felt-to-right fashion when page is cither upright or travel so that the top becomes the right side, except for graphs. Eigls Pencil and the production of the page of make and acceptable fash of the page of the page of make and durable.  Fig 1 Paper not flexible, strong, white, and durable.  Fig 2 Paper not flexible, strong, white, and durable.  Fig 3 Paper not flexible, strong, white, and durable.  Fig 4 Paper not flexible, strong, white, and durable.  Fig 5 Paper not flexible, strong, white, and durable.  Fig 6 Paper not flexible, strong, white, and durable.  Fig 6 Paper not flexible, strong, white, and durable.  Fig 6 Paper not flexible, strong, white, and durable.  Fig 7 Paper not flexible, strong, white, and durable.  Fig 6 Paper not flexible, strong, white, and durable.  Fig 6 Paper not flexible, strong, white, and durable.  Fig 7 Paper not flexible, strong, white, and durable.  Fig 8 Paper not flexible, strong, white, and durable.  Fig 8 Paper not flexible, strong, white, and acceptable flexible in the same size.  Shade lin	the drawingts) filed tinsert date) 12 104198 are:  [Dapping of by the Dratisperson under 37 CFR 1.84 or 1.152.	The Examiner will require
Hack, in. C. for Color drawings are not acceptable until perior is graited.  Figs.)  Pencil and non-black ink not perintied, Figts)  Photographis may not be mounted. 37 CFR 1.84(r)  Photographic may not mounted to make the production.  Pigs.)  Photographis may not be mounted. 37 CFR 1.84(r)  Photographis may not be mounted. 37 CFR 1.84(r)  Photographic may not mounted to sectional portions of an object. Pigs.)  Photographic may not mounted to sectional portions of an objec	BRANKS C for  Color drawings are not acceptable until petron is grinted.  Figes)  Pencil and non-Black into not permitted, Figes)  Proof and most black into not permitted, Figes)  Proof of RNPIDS 37 CFR LS4(f)  Proof quality (half-tone), Figes)  Proof quality (half-tone), Figes)  Proof quality (half-tone), Figes)  Proof property for EAPPR, 37 CFR LS4(e)  Paper not the killed, strong, white, and durable.  Figes)  Nylie of PAPPR, 37 CFR LS4(e)  Paper not the killed, strong, white, and durable.  Figes  Myliar, velum paper is not acceptable too thin),  Figes  All drawing sheets not acceptable too thin),  Drawing sheets not the same size.  Sheetiss of the same size,  Sheetiss of the same size.  Margins not acceptable figes  Top C5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 2.5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A2 Size  Fop 1.5 Lcft (L)  Right (R)  Numbers and reference characters not oriented in the same directed to thin).  REMINDER: Specification may require revision to correspond to drawing changes.  Proof of the proof of the property of property.  Figes)  Proof the proof of the proof of the property of property.  Figes)  A SECORD Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 2.5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 2.5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 2.5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 2.5 cm Lcft 2.5 cm Right 1.5 cm Bottom 1.0 cm  STZE: A4 Size  Fop 6.1 Lcft (L)  Right (R)  Numbers, letters and reference characters must be at least on the same size, sheets in missing, Figes)  Lcad lines cross cach other.  Figes)  Lcad lines cross cach other.  Figes)  Lcad lines missing, Figes)  Lcad lines cross cach other.  Figes)  Lcad lines missing, Figes)  Lcad lines cross cach other.  Figes)  Lcad lines and and consecutively, and in Arabic num beginning with number 1. Sheet(6)  Views not landered separately or property.  Figes)  A SECCEDNAL MIEWS 37 CFR L84(b) 3)  Figes 1.5 LCR LS2  Figes 2.2 LcR LS3  Figes	We objected to by the Draftsperson under 37 CFR 1 84 or L152 to abunission of new, corrected drawings when necessary. Corrected dra-	of the reasons indicated according to the instructions on the back of this noti- owing must be sumitted according to the instructions on the back of this noti-
Roman numbers. Fig(s)	Hatching not indicated for sectional portions of an object.    Surface shading shown not appropriate. Fig(s)   Solid black shading not used for color contrast.	Black ink. Cclor.  Color drawings are not acceptable until petron is grinted. Fig(s)  Pencil and non black ink not permitted, Fig(s)  PlotOGRAPHS 37 CFR 1.84(f)  1 full-tone set is required. Fig(s)  Photographs may not be mounted. 37 CFR 1.84(e)  Poor quality (half-tone). Fig(s)  TYPF OF PAPFR. 37 CFR 1.84(e)  Paper not flexible, strong, white, and durable. Fig(s)  Erasures, alterations, overwritings, interlineations, folds, copy, machine marks not accepted. Fig(s)  Mylar, velum paper is not acceptable (too thirt). Fig(s)  SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.0 cm by 29.7 cm (DIN size A4) 21.0 cm by 29.7 cm (DIN size A4) 21.0 cm by 27.9 cm (S 1/2 x 11 inches) All drawing sheets not an acceptable size. Fig(s)  MARGINS. 7 CFR 1.84(g): Acceptable margins:  Drawbays sheets not an acceptable margins:  Top 2.5 cm 1.eft 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 84/2 x 11  Margins not acceptable. Fig(s)  Top Cf)  Right (R)  Right (R)  6. VIEWS. 37 CFR 1.84(h)  REMINDER: Specification may require revision to correspond to drawing changes.  Partial views. 37 CFR 1.84(h)(2)  Hackers needed to show figure as one entity.  Fig(s)  Views not labeled separately or properly. Fig(s)  Views not labeled separately or properly. Fig(s)  7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  Hatching not indicated for sectional portions of an object. Fig(s)  Sectional designation should be noted with Arabic or	when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)  9. SCALE. 37 CFR 1.84(k)  Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  Fig(s)  10. CHARACTER OF LINES, NUMBERS, & LETTERS.  37 CFR 1.84(l)  Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).  Fig(s)  11. SHADING. 37 CFR 1.84(m)  Solid black areas pale. Fig(s)  Solid black shading not permitted. Fig(s)  Shade lines, pale, rough and blurred. Fig(s)  Shade lines, pale, rough and blurred. Fig(s)  12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.  37 CFR 1.84(p)  Numbers and reference characters not plain and legible.  Fig(s)  Fig(s)  Numbers and reference characters not oriented in the same direction as the view, 37 CFR 1.84(p)(1)  Fig(s)  12. Tho  English alphabet not used. 37 CFR 1.84(p)(2)  Figs  Numbers, letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)  Fig(s)  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines cross each other.  Lead lines cross cach other.  Fig(s)  14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)  Views not numbered consecutively, and in Arabic numeral beginning with number 1. Sheet(s)  15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not numbered consecutively, and in Arabic numeral beginning with number 1. Fig(s)  16. CORRECTIONS. 37 CFR 1.84(w)  Corrections not made from prior PTO-948 dated  17. DESIGN DRAWINGS. 37 CFR 1.85(s)  Solid black shading not used for color contrast.
COMMENTS	Sectional designation should be noted with Arante of Fig(s)  Roman numbers. Fig(s)	Sectional designation should be noted with Arabic or Roman numbers. Fig(s)	

```

ATTACHMENT TO PAPER NO. 35.

# BEST AVAILABLE COPY

# REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1. Lis Langed to Fig 1A, Fig. 1B, Fig. 1C, etc., the specification, at the limit Description of the Drawing, must likewise be changed. Please make such things by 37 (FR : 312 amendment at the time of submitting drawings.

# INFORMATION ON HOW TO EFFECT DRAWING CHANGES

# Correction of Drawings, 37 CFR 1.85

. J. . . Gons other final informalates with the afternoon form PTO-948.

manges to me may rogs other team in the same and d by in treatt person. MUST be made in the same in th

## timing of Corrections

control required a submit the drawings a rections within the time period set in the attached Office communication. Sec 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in ABANDONMENT of the application.